

The Discovery of the Higgs Boson

I would like to nominate the discovery of the Higgs Boson for the Nobel Prize because it is the last missing piece for the fundamental particle physics. The prediction of such particles can be traced back to 40 years ago. While physicists discovered other quantum particles, they could not possibly explain where they get their masses from. The result is the hypothesis of the Higgs Boson, a particle like the electric field. Thanks to Einstein's famous $E=mc^2$, this particle only need to provide the other quantum particles with energy with mass and that is where their masses come from. Physicists back in the 50s lack the advanced technology to discover the existence of such particle, but today's physicists can use the new atom smasher to find the trace of such particle. It is the most important discovery of the century because the fundamental particle theory is now complete. One may suspect the if the future physicist can discovery anything like this or not.

